

We claim:

- 1 1. A method of providing voice messaging services at a handheld computing device
2 comprising:
 - 3 communicating with a voice messaging repository to receive a voice message at said
4 handheld computing device;
 - 5 locally storing said received voice message; and
 - 6 locally providing an interface to said user allowing said user to indicate an action to
7 perform on said received voice message.
- 1 2. The method of claim 1 further comprising:
 - 2 receiving an indication of said action to perform on said received voice message;
 - 3 and
 - 4 responsive to receiving said indication, performing said action.
- 1 3. The method of claim 2 wherein said action is “play” and said performing said action
2 further comprises:
 - 3 generating an audio signal from said received voice message; and
 - 4 outputting said audio signal to an audio output device associated with said handheld
5 computing device.
- 1 4. The method of claim 2 wherein said action is “delete” and said performing said action
2 further comprises further communicating with said voice messaging repository to indicate a
3 deletion of said received voice message.
- 1 5. The method of claim 2 wherein said action is “forward” and said performing said action
2 further comprises:
 - 3 receiving an indication of an intended recipient of said received voice message; and

Table 1. Demographic characteristics of the study population	
Age (years)	65.5 ± 1.2
Gender	
Male	50.0%
Female	50.0%
Education (years)	12.5 ± 0.5
Income (USD/month)	1,200 ± 100
Marital status	
Married	60.0%
Single	40.0%
Health status	
Good	70.0%
Poor	30.0%
Smoking status	
Smoker	20.0%
Non-smoker	80.0%
Alcohol consumption	
Regular	10.0%
Occasional	30.0%
Never	60.0%

1 14. The method of claim 13 further comprising employing the Hyper-Text Transfer
2 protocol for said communicating with said voice messaging server.

1 15. The method of claim 1 wherein said voice messaging repository is a voice messaging
2 server and wherein said communicating with said voice messaging server occurs over a
3 public switched telephone network.

1 16. The method of claim 15 further comprising establishing a connection to said public
2 switched telephone network.

1 17. The method of claim 16 further comprising generating Dual Tone Multi-Frequency
2 tones for said communicating with said voice messaging server.

1 18. The method of claim 1 further comprising compressing said received voice message to
2 reduce memory required for voice message storage.

1 19. The method of claim 1 further comprising, before said communicating with said voice
2 messaging repository to receive said voice message, receiving an indication of arrival of a
3 voice message from said voice messaging repository.

1 20. The method of claim 19 wherein said indication of arrival includes details associated
2 with said received voice message.

1 21. The method of claim 1 wherein said communicating with said voice messaging
2 repository further comprises indicating to said voice messaging repository a status of voice
3 messages previously received at said handheld computing device.

1 22. The method of claim 21 wherein, for each of said previously received voice messages,
2 said status is one of unplayed, played, deleted, sent and unsent.

1 / 23. A handheld computing device comprising:

2 means for communicating with a voice messaging repository to receive a voice
3 message;

4 means for locally storing said received voice message; and

5 means for locally providing an interface to said user allowing said user to indicate
6 an action to perform on said received voice message.

1 / 24. A computer readable medium containing computer-executable instructions which, when
2 performed by a processor in a handheld computing device, cause the processor to:

3 communicate with a voice messaging repository to receive a voice message;

4 locally store said received voice message; and

5 locally provide an interface to said user allowing said user to indicate an action to
6 perform on said received voice message.

1 / 25. A method of creating a voice message at a handheld computing device comprising:

2 recording said voice message using audio recording capabilities of said handheld
3 computing device;

4 receiving, through a local interface, an indication of an intended recipient of said
5 voice message; and

6 communicating with a voice messaging repository to transfer said voice message in
7 association with information identifying said intended recipient.

1 / 26. A method of providing voice messaging services at a handheld computing device
2 comprising:

3 communicating with a voice messaging repository to receive, at said handheld
4 computing device, information regarding a voice message;

5 locally storing said received information;

6 locally providing an interface to said user, where said interface allows said user to
7 review said information and indicate an action to perform on said voice message;
8 and

9 transmitting, to said voice messaging repository, instructions to perform said action
10 on said voice message.